Minimum System Requirements

This document lists the required system infrastructure to run your Blackbaud system. Blackbaud recommends the purchase of top-of-the-line equipment when possible and that organizations budget for continual upgrades to their system. Please note that minimum system requirements are subject to change, so make sure you have the latest information before making any purchases.

In addition to the following minimum requirements, Blackbaud strongly recommends the purchase and scheduled use of a tape or archival backup solution. The Blackbaud Management Console includes a backup utility to make or schedule backups while the database engine is running. Blackbaud recommends regular testing to ensure reliability.

The Raiser's Edge 7 SQL Server

standalone / workstation minimum requirements		
operating system	<table><tr><th>Operation System</th><th>No SP</th><th>SP1</th></tr><tr><td>Windows 7 (32-bit & 64-bit)</td><td>Yes</td><td>Yes</td></tr><tr><td>Windows 8 (32-bit and 64-bit)</td><td>Yes</td><td>N/A</td></tr><tr><td>Windows 8.1 (64-bit)</td><td>Yes</td><td>N/A</td></tr><tr><td>Windows 8.1 (32-bit)</td><td>No</td><td>N/A</td></tr><tr><td>Windows 10 (64-bit)</td><td>Yes*</td><td>N/A</td></tr><tr><td>Windows 10 (32-bit)</td><td>No</td><td>No</td></tr></table> **Note: Blackbaud does not support the use of Home operating systems.** **Note:** Microsoft Office 2007, Office 2010 and Office 2013 (32-bit) is required to use the Microsoft Integration features. *Not supported as standalone		
processor (CPU)	Pentium IV-class or higher		
memory (RAM)	1GB minimum Windows 8, 8.1, & 10 – 2GBs		
disk space	1 GB minimum for program and system files and an additional 500 MB free disk space for processing activities **Note:** For standalone workstations, use the Disk Space chart under Database Server Requirements to estimate the disk space needed for database files.		
display	SVGA (800 x 600 resolution; 256 colors) minimum, 8-bit color or better		

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database server minimum requirements

operating system

Windows Server	No SP	SP1	SP2
Windows Server 2008 (32-bit and 64-bit)	Yes	Yes	Yes
Windows Server 2008 R2 (64-bit)	Yes	Yes	N/A
Windows Server 2012 (64-bit)	Yes	N/A	N/A
Windows Server 2012 R2 (64-bit)	Yes	N/A	N/A

Note: Domain controllers, Small Business Servers and peer-to-peer networks are not supported.

SQL server

SQL Server	NO SP	SP1	SP2	SP3	SP4
SQL Server 2008 (32-bit & 64-bit)	Yes	Yes	Yes	Yes	Yes
SQL Server 2008 Express (32-bit & 64-bit)	Yes	Yes	Yes	No	Yes
SQL Server 2008 R2 (32-bit & 64-bit)	Yes	Yes	Yes	Yes	N/A
SQL Server 2008 R2 Express (32-bit & 64-bit)	Yes	Yes	Yes	No	N/A
SQL Server 2012 (32-bit & 64-bit)	No	Yes	Yes	Yes	N/A
SQL Server 2012 Express (32-bit & 64-bit)	No	No	No	No	N/A
SQL Server 2014 (32-bit & 64-bit)	Yes	Yes	N/A	N/A	N/A
SQL Server 2014 Express (32-bit & 64-bit)	No	No	N/A	N/A	N/A

processor (CPU)

Pentium IV-class or higher, 2 GHz minimum for large networks. SQL Server provides enhanced support for Windows servers with multiple processors. It is designed to improve the performance of multi-user databases under heavy use and increase the workload the database can handle. It can also handle larger databases and/or a large numbers of users (20 and more). A dedicated database server, especially with high user loads and activity, should be considered. No mission-critical databases or other client/server applications, including other Blackbaud applications, should run on the same server. If you run more than one client/server application on the same server, that server needs to exceed the minimum requirements for optimal performance.

Note: Larger networks and databases require faster processors.

memory (RAM)

1 GB minimum. More memory may be required for databases larger than 1 GB.
- The maximum memory supported by SQL Server 2008 Express and 2008 R2 Express is 1 GB.
- The maximum memory supported by SQL Server 2008 and 2008 R2 Workgroup Editions is 4 GBs.
- The maximum memory supported by SQL Server 2008 Enterprise Edition is 2 TBs.
- The maximum memory supported by SQL Server 2008, 2008 R2 and 2012 Standard Editions is 64 GBs.
- The maximum memory supported by SQL Server 2012 R2 and 2014 Standard Editions is 128 GBs.
- The maximum memory for SQL Server 2008 R2, 2012, 2012 R2 and 2014 Enterprise Editions is the maximum that your operating system will support.

Note: SQL Server can dynamically allocate the optimal amount of memory (or cache) to the database to increase performance. Consider purchasing more than the required RAM to allow for a larger cache.

disk space

1 GB minimum for *The Raiser's Edge* program, system, and database management console files and an additional 500 MB for the workstation deployment files, which can be installed in a different location. Additional space is required for the database.

Note: Requirements vary, depending on the number of records and the additional modules used. Review the table below:

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total number of records (constituents and gifts)	minimum disk space for database
Fewer than 100,000	300 MB
100,000 - 250,000	750 MB
250,000 - 500,000	2 GB
500,000 - 1,000,000	4 GB
1,000,000 - 2,000,000	5 GB
2,000,000 - 5,000,000	7 GB
5,000,000+	10GB + 4GB for each additional one million records
hard disk	A high performance disk subsystem, such as SCSI-2 and RAID technology, is recommended

RE: Anywhere (formerly known as The Raiser's Edge for the Web)

workstation minimum requirements	
browser	Internet Explorer 7, 8 or 9
operating system	♦ Windows 7 (32-bit and 64-bit). **Note: Blackbaud does not support the use of Home operating systems.** **Note:** Microsoft Office XP, Office 2003, 2007 or Office 2010 (32-bit) is required to use the Microsoft Integration features.

web server minimum requirements note: separate Web and database servers are required	
operating system	♦ Windows 2008 Server (32-bit) SP2 installed with IIS 7.0 **Note:** Domain controllers, Small Business Servers, and peer-to-peer networks are not supported.
processor (CPU)	Pentium IV-class, 2 GHz minimum for large networks. **Note:** Larger networks and databases require faster processors.
memory (RAM)	1 GB minimum
disk space	1 GB minimum for *The Raiser's Edge* workstation components and an additional 30 MB for **RE: Anywhere**.
internet connection	You need a permanent Internet connection to your Web server and access from your Web server to *The Raiser's Edge*. Blackbaud recommends using a high-speed Internet connection. **Note:** To set up an Internet connection and register a domain name, contact your local Internet Service Provider (ISP).

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security	Blackbaud recommends securing your Web server with Secure Socket Layer (SSL) or equivalent technology to prevent unauthorized access to transmitted data. **Note:** Blackbaud is not responsible for the installation, configuration, and testing of any Web security measures. Blackbaud assumes no responsibility for the security of your Web server and any adverse consequences resulting from security issues. Blackbaud software does not establish or modify security on the Web server. Refer to http://www.microsoft.com for specific security measures and NTFS permissions needed by Windows 2003 and IIS.

RE: Sphere Connector 4.1

This embedded menu option in *The Raiser's Edge* provides integration between *Sphere* and *The Raiser's Edge* using the same underlying technology as **RE:NetSolutions** and **Blackbaud NetCommunity**. It drives a web-based, bi-directional data exchange between the two systems and employs Raiser's Edge workflow tools and functionality uniquely tailored to *Sphere*.

The Raiser's Edge™ workstation minimum requirements	
browser	Internet Explorer 7.0 or higher.
operating system	Windows XP Professional, Windows Vista (Business, Ultimate, Enterprise or Windows 7 Professional) are supported. SP3 or higher is required for Windows XP Professional. SP1 is required for Windows Vista. **Note:** Microsoft .NET Framework v3.5 is installed on 32-bit machines if it does not exist, but must be installed prior to any *Sphere Connector* installation on 64-bit machines. Only one instance of the *Sphere Connector* Windows service should be installed and running on the workstation or server.
disk space	*Sphere Connector 4.1* requires an additional 25 MB free disk space. **Note:** Synchronization data logs are stored on each workstation. *Sphere Connector* Windows Service, when installed, stores logs in the [install folder]\Service\data folder, and the *Sphere Connector* stores logs in the [install folder]\Sphere\data folder. These logs will grow over time. It is suggested that these folders be purged periodically (e.g. every 90 days) depending on how much disk space your workstation has.
internet connection	*Sphere Connector 4.1* requires internet connectivity to your *Sphere* site. Blackbaud recommends using a high-speed Internet connection.
ftp connection	*Sphere Connector 4.1* requires ftp connectivity to your *Sphere* ftp site. **Note:** Please contact Blackbaud support if you are unable to connect to the designated ftp site due to internal access controls in place.
The Raiser's Edge™	*Sphere Connector 4.1* requires *The Raiser's Edge 7.9*2 or higher.

The Raiser's Edge™ database server minimum requirements when used with Sphere Connector	
operating system	Windows 2008 Server and Windows 2008 Server x64 are supported only with *The Raiser's Edge 7.92* or higher. **Note:** Domain controllers, Small Business Servers, NT 4.0 Server, Windows 2000 and peer-to-peer networks are not supported.
SQL server	SQL Server Express 2005, SQL Server 2008, SQL Server 2005 & 2008 (Standard and Enterprise) and SQL Server 2005 & 2008 64-bit (Standard and Enterprise) editions are supported. SP1 or higher is required for SQL Server 2005 for both the 32-bit and 64-bit versions. **Note:** SQL Server 2000 is not supported. SQL Server Express 2005 and 2008 are not supported for The Raiser's Edge database server when used with *Blackbaud NetCommunity*. Please review the section "Other Compatibility Information" for additional information about when SQL Server Express should not be used.

Luminate Online Integration

Supported Versions: The Raiser's Edge 7.92, patch 11 or higher is required.

Operating Systems:
- Windows Server 2012 (64-bit). SP1 is supported. On Windows Server 2012 you will need to install .NET Framework 4.0 Full Build (Client Profile and Extended) is also required on the server and all workstations that will be running the Luminate Online Plug-In.
- Windows Server 2012 R2 (64-bit). On Windows Server 2012 you will need to install .NET Framework 4.0 Full Build (Client Profile and Extended) is also required on the server and all workstations that will be running the Luminate Online Plug-In.
- Windows 2008 (32-bit and 64-bit), SP2. On Windows Server 2008 you will need to install .NET Framework 4.0 Full Build (Client Profile and Extended) is also required on the server and all workstations that will be running the Luminate Online Plug-In.
- Windows Server 2008 R2 (64-bit). On Windows Server 2008 you will need to install .NET Framework 4.0 Full Build (Client Profile and Extended) is also required on the server and all workstations that will be running the Luminate Online Plug-In.
- Note: Windows 2003 is not supported.
- Microsoft .NET Framework Full Build 4.0 (Client Profile and Extended) is required on the server and all workstations that will be running the Luminate Online Plug-In.

Environment requirements:
- Internet Connection: The machine on which your web service is installed must have a permanent internet connection, and access to The Raiser's Edge. Blackbaud recommends using a high-speed internet connection.
- Firewall:
    - Outbound traffic must be allowed over ports: 80 (http), 443(https), and 9350-9354.
    - If you would like to restrict outbound traffic to our RELO Azure services the range of IP addresses are documented here: https://www.microsoft.com/en-us/download/details.aspx?id=41653. The IP address ranges listed for the US South Central data center are the ones that are applicable. Please ensure that you don't have a firewall rule preventing outbound traffic to these IP ranges.

Internet Connection: The machine on which your web service is installed must have a permanent internet connection, and access to *The Raiser's Edge*. Blackbaud recommends using a high-speed internet connection.

Everyday Hero Integration

Supported Versions: The Raiser's Edge 7.93 or higher is required.

When *The Raiser's Edge* is integrated with *Everyday Hero*, the Raiser's Edge server must be running SQL Server 2005 or higher.

Address Accelerator

This optional subscription service is available via download from our web site or via DVD shipment. You will need a DVD drive which is capable of reading a DVD-R formatted disc on any servers or workstations on which the update is installed.

The Patron Edge

When *The Raiser's Edge* is integrated with *The Patron Edge*, the *Raiser's Edge* server must be running SQL Server Standard or Enterprise. The integration is not supported with SQL Server Express or MSDE.

Point of Sale (U.S. Only)

Point of Sale 7 includes Retail Management System (RMS) Store OperationsTM. For Retail Management Systems Store Operations TM system requirements, visit http://www.microsoft.com.

Note: RMS 1.2 SP1 is only supported when it is running on MSDE Service Pack 2 or SQL 2000 Service Pack 2. *The Raiser's Edge* is only compatible with version 1.2 and lower.

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CounterPoint
For CounterPoint system requirements, visit http://www.synchronics.com/products/cpsqI_sysreq.htm.

AuctionMaestro Pro
For AuctionMaestro Pro system requirements, visit http://www.maestrosoft.com/MSpro-ampro-inside.html#sysreq.

The Raiser's Edge Mobile Web Service
In order for mobile users to connect to your database in *The Raiser's Edge*, you must have the *Mobile Service for The Raiser's Edge* installed and running on your server or a single workstation that stays on, and is always connected to the Internet.
Note: *The Raiser's Edge* does not need to be open and running at all times for users to use the mobile application. Rather, the server or workstation just needs to remain on.

Supported Devices:
Android
Android OS v2.2 to 5.1

BlackBerry
BlackBerry OS 5.x, 6.x, and 7.x
HTTP connectivity via BES, BIS, or WAP 2.0
SD Card or eMMC

iOS
iPhone or iPod Touch OS 4.4+ and iPad OS 4.4+

Mobile Event Management
In order for Mobile Event Management users to connect to your database in *The Raiser's Edge*, you must have the *Blackbaud Web Services for The Raiser's Edge* installed and running on your server or a single workstation that stays on, and is always connected to the Internet.
Note: *The Raiser's Edge* does not need to be open and running at all times for users to use the mobile event management application. Rather, the server or workstation just needs to remain on.

Supported Device:
iOS
iPad OS 4.4+

Other Compatibility Information

third-party software	The following third-party software is included with *The Raiser's Edge 7* installation:
	◆ Microsoft SQL Server Express 2008 R2 SP2
	◆ Microsoft SQL Server Express 2005 Backward Compatibility Components
	◆ Microsoft Windows Installer 3.1
	◆ Microsoft Windows Installer 4.5
	◆ Microsoft Data Access Components (MDAC) 2.8
	◆ Microsoft .NET Framework 2.0.50727
	◆ Microsoft .NET Framework 4
	◆ Visual Basic for Applications (VBA) Components
	◆ Crystal Report XI Runtime Components

	• *Visual Basic for Applications* (optional module) • Microsoft System CLR Types 2012 • Microsoft SQL Server 2012 Shared Management Objects **Note:** If you do not own a license for SQL Server and have a database smaller than 9.5 GBs, you can consider using the Microsoft SQL Server Express which comes bundled with The Raiser's Edge 7. If you have a database larger than 9.5 GBs, then you will need to budget and purchase your own license for a full version of SQL Server that is compatible with The Raiser's Edge. SQL Server Express only recognizes 1 GB of RAM. For more information on SQL Server Express hardware limitations or for SQL Server information, please visit Microsoft's web site, http://www.microsoft.com. **Note**: Blackbaud does not support case sensitive collation sequences with SQL Server. **Note**: *The Raiser's Edge* with SQL Server 2005 currently is not supported with Class, Point of Sale™, or ProVenueMax integration with *The Raiser's Edge*. **Note**: Custom reports can be created in Crystal 8.5 or Crystal XI
bar code scanner	A laser printer and bar code reader capable of reading a 12-point 3 of 9 bar code font are required to support bar code printing and scanning in mailing and batch entry facilities. **Note:** Serial bar code scanners are not supported.
credit card processing	Credit card processing in The Raiser's Edge Enterprise works with Blackbaud Merchant Services (BBMS), IATS, CyberSource and Beanstream to authorize and transfer credit card transactions. For more information on processing credit cards in The Raiser's Edge Enterprise, refer to BB118918 in our Knowledgebase. **Note: Multiple merchant accounts are supported with The Raiser's Edge Enterprise and BBMS or IATS.**
electronic funds transfer	The optional module **RE:EFT for Electronic Funds Transfer** allows you to process direct debits and credit card transactions. Following are the supported bank EFT formats for Canada: • CPA 1464 Standard Format • CIBC 1464 Standard Format • Royal Bank 1464 Standard Format • National Bank 1464 Standard Format • Toronto Dominion 1464 Standard Format • Scotia Bank **RE:EFT** also works with IATS to process electronic transmission files for credit card gifts. Refer to the Credit Card Processing section for IATS product information. Following are the supported bank EFT formats for Standing Orders in the United Kingdom: • Barclays • Natwest • Bank of Scotland • Lloyds • Royal Bank of Scotland • Bank of Ireland • HSBC • Co-Operative Bank For direct debits in the United Kingdom *The Raiser's Edge* works with any bank that have a BACS eligible system.
email	A MAPI-compliant (a Microsoft email standard) email system is required. **Note:** Some vendors do not fully implement the MAPI standard. Blackbaud cannot guarantee these products will work with email features in *The Raiser's Edge*. Blackbaud has tested compatibility with Microsoft Outlook XP, 2003, 2007, 2010 and 2013 SP1 (32-bit) only.
mail merge	Microsoft Word versions XP, 2003, 2007, 2010 and 2013 SP1 (32-bit) Professional are supported.

printers	Blackbaud does not make specific printer requirements. Reports and forms in Blackbaud products are specifically designed and tested with HP LaserJet printers. We cannot design for and test reports and forms with every printer; therefore, results with other printers may vary. Speed, quality, and usability are generally best achieved with more recent printer models. Updated printer drivers, available directly from the printer or operating system manufacturer, may be necessary for compatibility with Blackbaud products. Consult with reputable vendors and suppliers to determine the best choice for your organization's needs.
server-based computing ("thin-client" technology)	Blackbaud's thin-client solution is **RE:Anywhere (formerly known as The Raiser's Edge for the Web)**, which provides access to *The Raiser's Edge* via the Internet or your intranet. The Web version offers similar features and a similar appearance to *The Raiser's Edge* 7. A Web browser on your workstation is required. For more information, refer to the **RE:Anywhere** requirements. Blackbaud also offers Hosting Services for *The Raiser's Edge 7*, for which we host *The Raiser's Edge* 7 application and database. Access to the application is provided via your Web browser (Internet Explorer or Firefox) over a secure Citrix client connection. The hosted version provides access to complete Raiser's Edge functionality including a temporary storage directory for exporting and transferring files. For more information, contact your account manager. *The Raiser's Edge* is compatible with Windows 2008 Terminal Services, and Citrix hosting solutions. These thin-client technologies provide complete access to Blackbaud applications over low-bandwidth connections (dial-up, 56K, ISDN) from low-end legacy PCs or from computers running non-supported operating systems such as Macintosh or OS/2. In these environments, all application processing occurs on a single, centralized server. For information on Microsoft Terminal Services Edition, visit http://www.microsoft.com. For information on Citrix, visit http://www.citrix.com. To determine your hardware requirements, Citrix suggests a pilot setup and the use of performance tools to measure the impact that users, applications, and location have on setup. Consult with qualified information systems professionals when implementing this technology. Wide Area Network (WAN) and Virtual Private Network (VPN) connections are not supported. for more information, refer to Knowledgebase solution BB50293.

Business Forms

Blackbaud Business Forms offers pre-printed computer forms (such as gift receipts, pledge reminders, phonathons, membership cards and renewals) and envelopes that are specifically designed for use with *The Raiser's Edge*. Blackbaud forms are guaranteed to align correctly and can be customized to your organization's specifications, using your logo, special inks, and print styles. Pre-printed forms from other suppliers are not guaranteed to align properly and are not supported by Blackbaud. For more information about *Blackbaud Business Forms*, visit the Products section of our Web site.